LDL-receptor family

LOLR 餐

8-Propeller domain

EGF-like domain

LDL receptor class A domain

ApoER2 (manage)

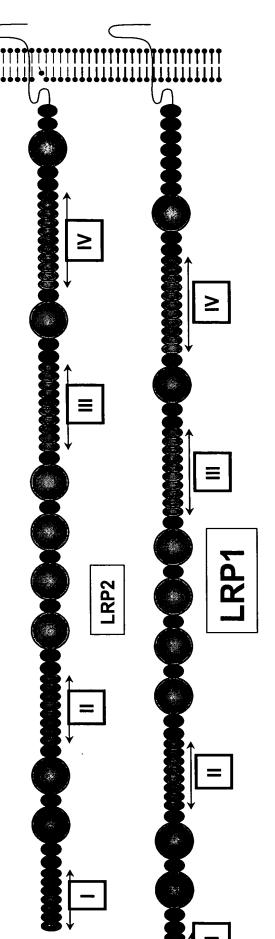


Figure 2 LDL-receptor class A domain

LRP1_HUMAN	C. EPYQFRCKNNRCVPGRWQ.CDYDNDCGDNSDEESC
LRP1_HUMAN	C.LPSQFKCTNTNRCIPGIFR.CNGQDNCGDGEDERDC
LDLR_HUMAN	C.SQDEFRCHDGKCISRQFV.CDSDRDCLDGSDEASC
LRP2_HUMAN	C.SSSAFTCGHGECIPAHWR.CDKRNDCVDGSDEHNC
LRP2_HUMAN	C.SSSEFQCASGRCIPQHWY.CDQETDCFDASDEPASC
CORI_HUMAN	CHSQGLVECRNGQCIPSTFQ.CDGDEDCKDGSDEENC
MAT_HUMAN	C. PAQTFRCSNGKCLSKSQQ.CNGKDDCGDGSDEASC
CO8B_HUMAN	CEGFVCAQTGRCVNRRLL.CNGDNDCGDQSDEANC
MAT_HUMAN	C.TKHTYRCLNGLCLSKGNPECDGKEDCSDGSDEKDC
LDVR_HUMAN	CLGPGKFKCRSGECIDISKV.CNQEQDCRDWSDEPLKEC
APOER2_HUM	C.PAEKLSCGPTSHKCVPASWR.CDGEKDCEGGADEAGC
SORL_HUMAN	CTHFMDFVCKNRQQCLFHSMV.CDGIIQCRDGSDEDAAFAGC
ST7_HUMAN	C.AYNQFQCLSRFTKVYTCLPESLK.CDGNIDCLDLGDEIDC
consensus	C.1234F6C12G4CI23456.CDG34DC1D3SDE78C

FIGURE 3

A-domains

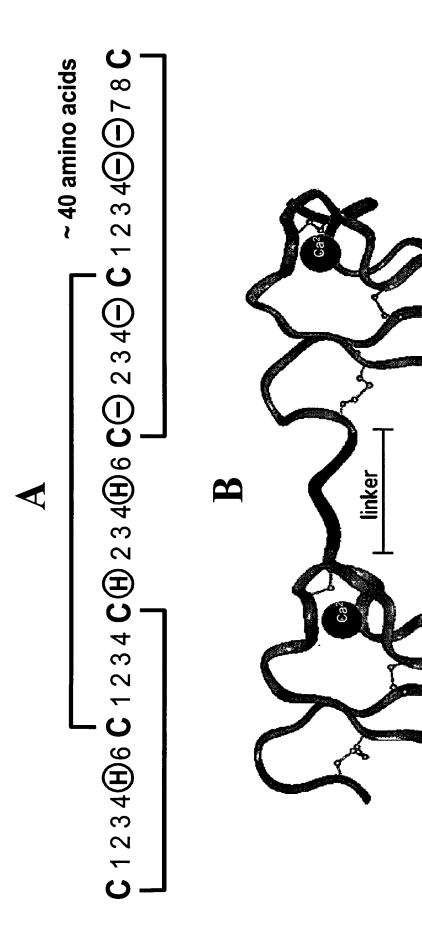
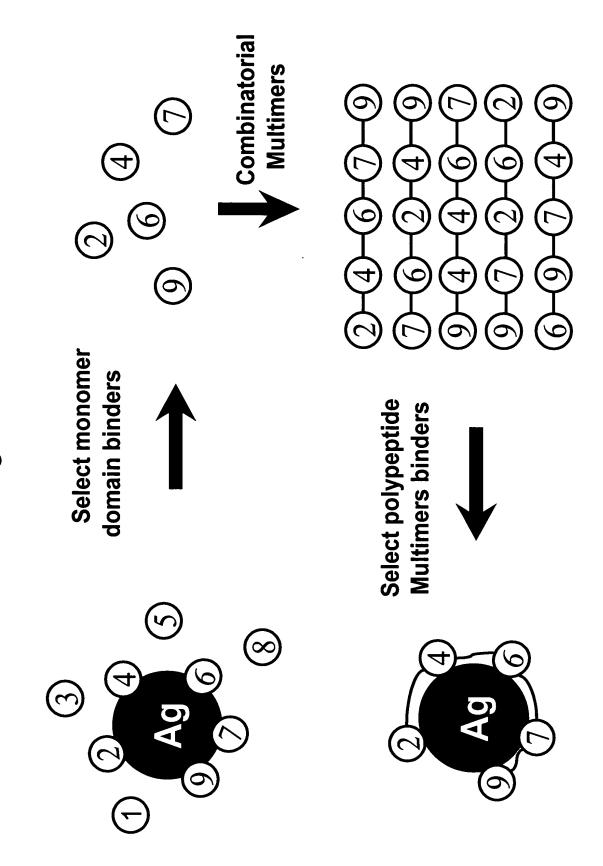


Figure 4 Ligands recognized by LDL-receptor family

profeases	proteins involved in	miscellaneous
factor IXa	lipoprotein metabolism	albumin
pro-uPA	apoB100	transthyretin
	ароЕ	β-Amyloid precursor protein
plasminoden	apoJ (clusterin)	RAP
6-d N	apoH (β ₂ -glycoprotein I)	complement C3
	Lp(a)	lactoferrin
inhibitors	hepatic lipase	thyroglobulin
α ₂ -macroglobulin	lipoprotein lipase	thrombospondin
PAI-1	IDF	saposin precursor
TFPI	VLDL	insulin
pancreatic trypsin inhibitor	eta-VLDL	parathyroid hormone (PTH)
		aprotinin
complexes	non-human	α-amylase
protease/	pseudomonas exotoxin A	C1a ,
α ₁ -antitrypsin	circumsporozoite protein	α ₁ -microglobulin
protein C inhibitor	trichosanthin	β ₂ -microglobulin
protease nexin-1	ricin A	odorant-binding protein
antithrombin	saporin	epidermal growth factor
C1-inhibitor	;	prolactin
thrombin/heparin cofactor II	antiblotics	lysozyme
	gentamicin	connective tissue growth factor (CTGF)
camepsin G/α_1 -anticnymotrypsin	polymyxin B	cytochrome c
		seminal vesicle secretory protein II
vitamin-carrier complexes	viruses	clara cell secretory protein (CCSP)
vitamin D-bp, vitamin D	HRV2 (Rhino)	cubulin
retinol-bp, vitamin A	HCV (Flavi)	factor VIII
transcobalamin, vitamin B12	BVDV (Flavi)	

Figure 5



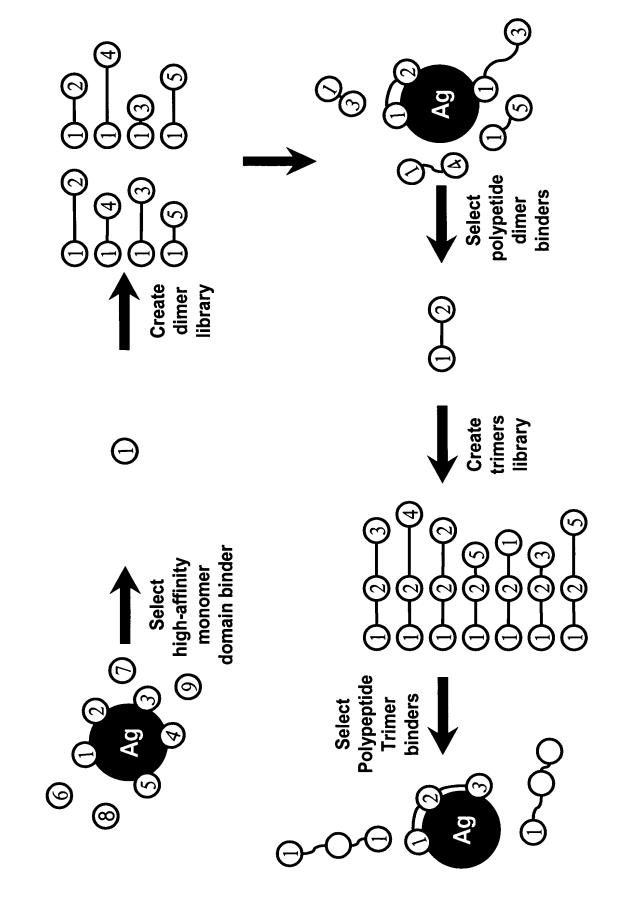
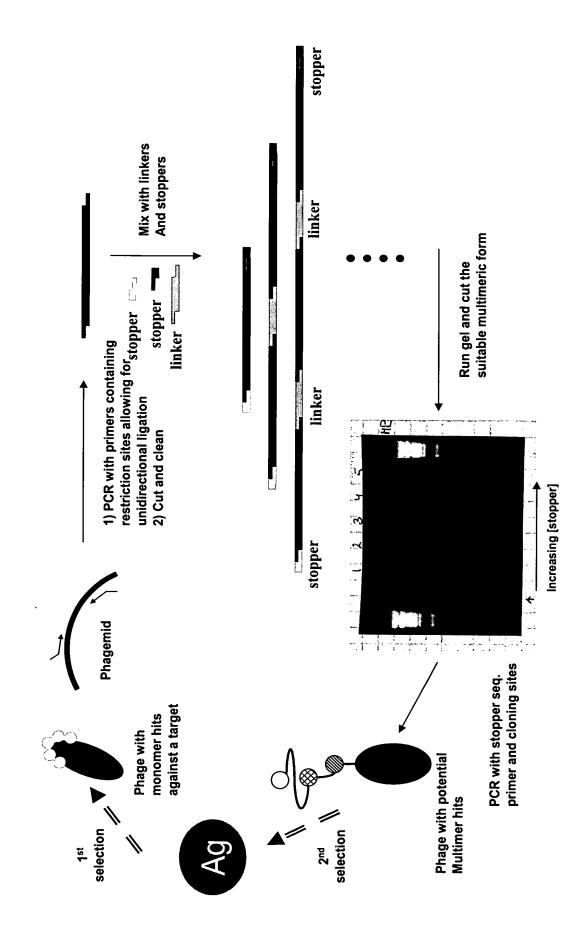


Figure 7



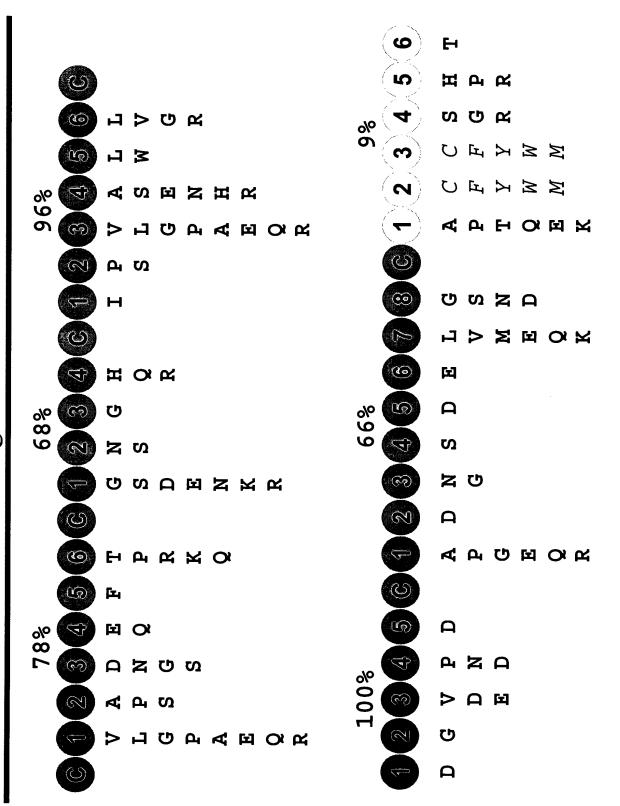


FIG. 9A

	_	7	က	4	2	9	7	8	6	10	11	12	13	14	15	16	17
∢	0.0	7.1	12.3	3.2	1.9	1.9	7.1	0.0	15.8	1.5	0.0	1.5	0.0	1.0	3.7	7.3	9.4
ပ	100.0	0.0	9.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	1.5	99.5	0.0	0.0	0.0	0.0
۵	0.0	5.5	4.5	19.5	5.6	0.0	0.0	0.0	8.3	10.5	2.3	0.8	0.0	0.0	3.7	1.6	4.7
ш	0.0	4.5	9.7	5.6	37.0	0.0	3.9	0.0	3.8	0.0	8.0	9.8	0.0	0.0	1.6	7.3	7.3
<u>u</u>	0.0	9.0	0.0	3.9	1.9	0.92	9.0	0.0	8.0	0.0	0.0	0.8	0.0	0.5	9.	2.1	5.6
<u>ი</u>	0.0	13.0	3.2	16.2	1.9	0.0	0.0	0.0	12.8	0.8	72.2	2.3	0.0	0.0	3.1	5.2	4.2
I	0.0	1.9	. ნ	<u>5.2</u>	3.9	1.9	3.9	0.0	3.0	8.0	4.5	9.0	0.0	0.0	4.7	3.1	5.8
_	0.0	0.0	1.3	0.0	0.0	3.9	9.0	0.0	0.0	0.0	0.0	2.3	0.0	63.9	0.0	5.2	3.7
¥	0.0	3.9	3.9	1.9	1.9	9.0	7.8	0.0	11.3	0.0	3.0	0.0	0.0	2.1	2.1	6.6	3.7
_	0.0	8.4	4.5	0.0	1.3	3.9	3.9	0.0	1.5	0.0	1.5	4.5	0.0	11.0	5.2	12.0	3.1
Σ	0.0	9.0	9.0	0.0	1.3	9.0	1.9	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.5	3.1	1.6
z	0.0	1.9	9.0	13.6	<u>გ</u>	0.0	1.9	0.0	5.3	51.9	5.3	3.8	0.0	0.0	5.2	4.2	5.6
۵.	0.0	10.4	33.8	1.3	0.0	0.0	9.7	0.0	4.5	0.0	0.0	0.0	0.0	0.0	45.5	7.3	2.1
ø	0.0	10.4	5.6	1.9	30.5	9.0	21.4	0.0	5.3	8.0	2.3	9.8	0.0	0.0	5.6	5.8	4.7
<u>«</u>	0.0	7.1	3.2	3.2	1.3	9.0	18.2	0.0	7.5	8.0	4.5	32.3	0.0	0.0	1.0	9.4	11.5
တ	0.0	18.8	11.7	16.2	3.9	9.0	9.7	0.0	15.0	25.6	3.0	3.0	0.0	0.0	14.7	10.5	20.4
-	0.0	5.2	5.6	2.8	3.2	1.3	<u>7.8</u>	0.0	2.3	<u>0.0</u>	8.0	<u>0.0</u>	0.0	1.6	5.6	0.5	5 .8
>	0.0	9.0	1.9	9.0	0.0	9.0	1.3	0.0	2.3	8.0	0.0	3.0	0.0	<u>17.3</u>	0.5	3.1	5.6
>	0.0	0.0	9.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	5.6
>	0.0	0.0	9.0	5.6	2.8	5.2	0.0	0.0	0.8	0.8	0.0	0.0	0.5	5.6	1.0	2.1	1.6
	0	į	!	i I	i	•						1	!			,	
	100.0	85.7	67.5	9.9/	73.4	81.2	α .α	100.0	81.2	94.0	77.4	75.9	99.5	92.1	70.7	80.1	60.2
	-	တ	4	ဖ	က	7	7	_	ω	4	7	9	_	က	4	10	9
	100.0	73.4	67.5	65.6	67.5	76.0	66.2	100.0	68.4	77.4	72.2	6.09	99.5	63.8	60.2	60.2	59.2
	_	7	4	4	7	-	2	~	9	2	-	4	1	1	2	7	9

FIG. 9B

_	_	_												_							_			_
35	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	_	100.0	1
34	3.8	0.0	21.4	0.8	0.8	22.9	6.1	8.0	8.0	8.0	0.8	33.6	0.8	8.0	1.5	4.6	0.0	0.0	0.0	0.0	84.0	4	77.9	3
33	16.0	0.0	6.9	16.8	1.5	8.0	2.3	3.1	12.2	9.9	1.5	1.5	0.0	6.1	10.7	8.0	2.3	6.1	0.8	0.8	84.7	∞	61.1	5
32	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	_	100.0	1
31	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	_	100.0	1
30	4.6	0.0	0.0	6.9	0.0	1.5	0.0	0.0	0.0	8.0	8.0	0.0	0.0	0.0	3.1	80.9	1.5	0.0	0.0	0.0	87.8	7	80.9	1
29	4.6	0.0	1.5	2.3	8.0	48.9	2.3	0.0	3.8	1.5	3.1	14.5	0.0	3.1	2.3	4.6	0.0	0.0	3.1	3.8	63.4	7	63.4	2
28	0.0	0.0	89.3	0.0	0.0	1.5	8.0	0.0	0.0	0.0	0.0	4.6	0.0	8.0	0.0	1.5	8.0	0.0	0.0	0.8	89.3		89.3	1
27	<u>6.9</u>	0.0	3.8	9.9	0.0	30.5	8.0	1.5	6.1	<u>6.9</u>	1.5	0.0	6.6	5.3	3.8	9.7	8.0	4.6	0.0	0.0	83.2	œ	64.1	5
26	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		100.0	1
25	0.0	0.0	86.3	3.6	0.0	0.0	3.6	0.0	0.0	0.0	0.0	4.1	0.0	1.5	0.0	0.5	0.5	0.0	0.0	. 0.0	86.3		86.3	7
24	<u>5.6</u>	0.0	22.3	4.6	3.0	0.0	1.5	2.0	5.1	3.0	0.0	21.3	10.7	4.6	6.1	2.0	2.0	3.6	7.5	1.0	71.1	9	60.4	4
23	2.5	0.0	28.4	15.7	4.6	0.5	4.1	4.6	2.5	2.0	1.0	2.0	0.0	10.7	2.5	2.0	7.5	10.2	2.0	3.0	65.0	4	65.0	4
22	1.0	0.0	1.5	2.0	0.5	0.99	3.6	0.0	1.0	1 .5	1.5	3.6	0.0	4.1	5.6	3.0	2.5	0.5	0.5	1.5	71.6	7	0.99	γ-
21	0.0	0.0	81.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	7	81.2	1
20	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	-	100.0	-
19	2.6	0.0	0.0	1.6	0.5	0.0	5.6	4.7	<u>12.6</u>	15.2	1.0	0.0	0.5	7.3	24.1	0.0	5.6	21.5	5.6	0.5	9.08	2	2.09	3
18	1.6	0.0	1.0	1.0	<u>7</u> .9	1.0	0.0	0.0	<u>6.8</u>	14.7	0.5	2.1	0.0	5.8	3.7	1.0	0.5	1.0	46.6	4.7	81.7	2	61.3	2

Figure 10

	a bc d	le f	ghi jk lm	пор д
IDD HUMAN	CNPGQFACRSGTIQC	IPLPWO	. CDGWATCEDE	.SDEANC
LRP3 HUMAN	CQADEFRCDNGK	LPGPWO	. CNTVDECGDG	.SDEGNC
LRP3 HUMAN	CPGGTFPCSGARSTRC	LPVERR	. CDGLODCGDG	.SDEAGC
LRP3 HUMAN	CLPWEQPCGSSSDSDGGSLGDQGC			
LRP3 HUMAN	CPPDQYPCEGGSGLC	YTPADR	. CNNOKSCPDG	.ADEKNC
LRP3 HUMAN	CQPGTFHCGTNLC	IFETWR	. CDGOEDCODG	.SDEHGC
LRP5 HUMAN	CSPDQFACATGEIDC	IPGAWR	.CDGFPECDDO	.SDEEGC
LRP5 HUMAN	CSAAQFPCARGQ	VDLRLR	.CDGEADCODR	.SDEVDC
LRP5 HUMAN	CLPNQFRCASGQC	VLIKOO	.CDSFPDCIDG	SDELM
LRP6 HUMAN	CSPQQFTCFTGEIDC	IPVAWR	. CDGFTECEDH	SDELN
LRP6_HUMAN	CSESQFQCASGQC	IDGALR	. CNGDANCODK	.SDEKNC
LRP6_HUMAN	CLIDQFRCANGQC	IGKHKK	. CDHNVDCSDK	.SDELDC
ST7_HUMAN	CACDQFRCGNGKC	IPEAWK	. CNNMDECGDS	.SDEEIC
ST7_HUMAN	C AYNQFQCLSRFTKVYTC	LPESLK	. CDGNIDCLDL	.GDEIDC
ST7_HUMAN	C	YTEQQR	. CDGYWHCPNG	.RDETN C
ST7_HUMAN	CQKEEFPCSRNGVC	YPRSDR	. CNYQNHCPNG	.SDEKNC
ST7_HUMAN	CQPGNFHCKNNRC	VFESWV	. CDSQDDCGDG	.SDEENC
CORI_HUMAN	CGRGENFLCASGIC	IPGKLQ	. CNGYNDCDDW	.SDEAH C
CORI_HUMAN	C SENLFHCHTGK	LNYSLV	. CDGYDDCGDL	.SDEQNC
CORI_HUMAN	CNPTTEHRCGDGRC	IAMEWV	. CDGDHDCVDK	.SDEVNC
CORI_HUMAN	CHSQGLVECRNGQC	IPSTFQ	. CDGDEDCKDG	.SDEENC
CORI_HUMAN	CSPSHFKCRSGQC	VLASRR	. CDGQADCDDD	.SDEENC
CORI_HUMAN	CKERDLWECPSNKQ	LKHTVI	. CDGFPDCPDY	.MDEKNC
CORI_HUMAN	CQDDELECANHA	VSRDLW.	. CDGEADCSDS	.SDEWDC
TMS2_HUMAN	CSNSGIECDSSGT	INPSNW	. CDGVSHCPGG	.EDENR C
TMS3_HUMAN	CSGKYRCRSSFK	IELIAR	. CDGVSDCKDG	.EDEYRC
MAMUH_TAM	C	IRKELR	. CDGWADCTDH	.SDELNC
MAT_HUMAN	CDAGHQFTCKNKF	KPLFWV.	. CDSVNDCGDN	.SDEQGC
MAT_HUMAN	C PAQTFRCSNGK	LSKSQQ	. CNGKDDCGDG	.SDEASC
MAT_HUMAN	CTKHTYRCLNGLC	LSKGNP	ECDGKEDCSDG	.SDEKDC
ENTK_HUMAN	CLPGSSPCTDALTC	IKADLF	.CDGEVNCPDG	.SDEDNKMC
ENTK_HUMAN	CKADHFQCKNGEC	VPLVNL	.CDGHLHCEDG	.SDEADC
HAI1_HUMAN CFAI HUMAN	CQPTQFRCSNGCC	IDSFLE.	. CDDTPNCPDA	.SDEAAC
CFAI_HUMAN	C.YTQKADSPMDDFFQCVNGK <u>Y</u> CQGKGFHCKSGV	ISQMKA.	. CDGINDCGDQ	.SDELC
CO6 HUMAN	CKNKFRCDSGRC	TYDUID	. CNGEVDCITG	.EDEVGC
CO7 HUMAN	CGERFRCFSGQC	TOVOLU	CNCDEDCDEDE	ADEDD G
COSA HUMAN	CGQDFQCKETGR	LYPHI.V	CNGDSDCDEDS	CDEDD C
CO8B HUMAN	C EGFVCAQTGR	UNERI.I.	CNGDNDCGDO	SDEDDC
CO9 HUMAN	CGNDFQCSTGRC	IKMRLR.	CNGDNDCGDF	SDEDD C
PERL_HUMAN	CTEAEFACHSYNE	VALEYR.	.CDRRPDCRDM	.SDELNC
PERL_HUMAN	CGPQEAACRNGHC	IPRDYL.	. CDGOEDCEDG	.SDELDC
PERL_HUMAN	C EPNEFPCGNGH	ALKLWR.	CDGDFDCEDR	.TDEAN C
PERL_HUMAN	CGPTQFRCVSTNMC	IPASFH.	.CDEESDCPDR	.SDEFGC
SORL_HUMAN	CLRNQYRCSNGN	INSIWW.	CDFDNDCGDM	.SDERNC
SORL_HUMAN	CDLDTQFRCQESGTC	IPLSYK.	.CDLEDDCGDN	.SDESHC
SORL_HUMAN	CRSDEYNCSSGMC	IRSSWV.	. CDGDNDCRDW	.SDEANC
SORL_HUMAN SORL HUMAN	CEASNFQCRNGHC	IPQRWA.	CDGDTDCQDG	.SDEDPVNC
SORL HUMAN	CNGFRCPNGTC CTHFMDFVCKNRQQC	IPSSKH.	CDGLRDCSDG	.SDEQHC
SORL HUMAN	CDEFGFQCQNGV	LIHSMV.	CDG11QCRDG	. SDEDAAFAG C
SORL_HUMAN	CSRYFQFRCENGHC	IDDIWK.	CDGMDDCGDY	.SDEANC
SORL HUMAN	CLPNYYRCSSGTC	IPNKWK.	CDRENDCGDW	SDERDC
SORL HUMAN	CDRFEFECHQPKTC	VMDIWV.	CDG1RDCADG	.SDEEAC
SORL HUMAN	CMSREFQCEDGEAC	TVLSER	CDGFLDCGDG	CDEKA C
APOER2_HUM	C EKDQFQCRNER	IPSVWR.	CDEDDDCLDH	SDEDD
APOER2_HUM	C ADSDFTCDNGH	IHERWK.	CDGEEECPDG	.SDESEATC
APOER2_HUM	CPAEKLSCGPTSHKC	VPASWR.	CDGEKDCEGG	.ADEAGC
APOER2_HUM	CAPHEFQCGNRS	LAAVFV.	CDGDDDCGDG	.SDERG C
APOER2_HUM	CGPREFRCGGDGGGA	IPERWV.	CDRQFDCEDR	.SDEAAELC
APOER2_HUM	CATVSQFACRSGE	VHLGWR.	CDGDRDCKDK	.SDEAD C
APOER2_HUM	CRGDEFQCGDGTC	VLAIKH.	CNOEODCPDG	.SDEAGC
LDLR_HUMAN	CERNEFQCQDGKC	ISYKWV.	CDGSAECQDG	.SDESQET C
LDLR_HUMAN	CKSGDFSCGGRVNRC	IPQFWR.	CDGQVDCDNG	.SDEQGC
LDLR_HUMAN	CSQDEFRCHDGKC	ISRQFV.	CDSDRDCLDG	.SDEASC
LDLR_HUMAN	CGPASFQCNSSTC	IPQLWA.	CUNDPDCEDG	.SDEWPQRC
LDLR_HUMAN LDLR HUMAN	CSAFEFHCLSGEC	IHSSWR.	CDGGPDCKDK	.SDEENC
LDLR HUMAN	CRPDEFQCSDGNC.	ingsky.	CUKETUCKDM	SDEVGC
<u></u>	C.	. אאחחוד	CMMARDCRDW	PDRETKEC

LDVR HUMAN	CEPSQFQCTNGRCITLLWK.CDGDEDCVDGSDEKNC
LDVR_HUMAN	CAESDFVCNNGQCVPSRWK.CDGDPDCEDGSDESPEQC
LDVR HUMAN	CRIHEISCGAHSTOCIPVSWR.CDGENDCDSGEDEENC
LDVR_HUMAN	CSPDEFTCSSGRCISRNFV.CNGQDDCSDGSDELDC
LDVR_HUMAN	CGAHEFQCSTSSCIPISWV.CDDDADCSDQSDESLEQC
LDVR_HUMAN	CPASEIQCGSGECIHKKWR.CDGDPDCKDGSDEVNC
LDVR_HUMAN	CRPDQFECEDGSCIHGSRQ.CNGIRDCVDGSDEVNC
LDVR_HUMAN	CLGPGKFKCRSGECIDISKV.CNQEQDCRDWSDEPLKEC
LRP1_HUMAN	CSPKQFACRDQITCISKGWR.CDGERDCPDGSDEAPEIC
LRP1_HUMAN LRP1 HUMAN	CQPNEHNCLGTELCVPMSRL.CNGVQDCMDGSDEGPHC CQPGEFACANSRCIQERWK.CDGDNDCLDNSDEAPALC
LRP1 HUMAN	CPSDRFKCENNRCIPNRWL.CDGDNDCGNSEDESNATC
LRP1 HUMAN	CPPNQFSCASGRCIPISWT.CDLDDDCGDRSDESASC
LRP1_HUMAN	CFPLTQFTCNNGRCININWR.CDNDNDCGDNSDEAGC
LRP1_HUMAN	CSSTQFKCNSGRCIPEHWT.CDGDNDCGDYSDETHANC
LRP1_HUMAN	CHTDEFQCRLDGLCIPLRWR.CDGDTDCMDSSDEKSC
LRP1_HUMAN	CDPSVKFGCKDSARCISKAWV.CDGDNDCEDNSDEENC
LRP1_HUMAN LRP1 HUMAN	CRPPSHPCANNTSVCLPPDKL.CDGNDDCGDGSDEGELC CRAQDEFECANGECINFSLT.CDGVPHCKDKSDEKPSYC
LRP1 HUMAN	CKKTFRQCSNGRCVSNMLW.CNGADDCGDGSDEIPC
LRP1 HUMAN	CGVGEFRCRDGTCIGNSSR.CNQFVDCEDASDEMNC
LRP1 HUMAN	CSSYFRLGVKGVLFQPCERTSL CYAPSWV.CDGANDCGDY SDERD C
LRP1_HUMAN	CPLNYFACPSGRCIPMSWT.CDKEDDCEHGEDETHC
LRP1_HUMAN	CSEAQFECQNHRCISKQWL.CDGSDDCGDGSDEAAHC
LRP1_HUMAN	C
LRP1_HUMAN	CDDREFMCQNRQCIPKHFV.CDHDRDCADGSDESPEC
LRP1_HUMAN	CGPSEFRCANGRCLSSRQWECDGENDCHDQSDEAPKNPHC
LRP1_HUMAN LRP1 HUMAN	CNASSQFLCSSGRCVAEALL.CNGQDDCGDSSDERGC CTASQFVCKNDKCIPFWWK.CDTEDDCGDHSDEPPDC
LRP1 HUMAN	CRPGQFQCSTGICTNPAFI.CDGDNDCQDNSDEANC
LRP1 HUMAN	CLPSQFKCTNTNRCIPGIFR.CNGQDNCGDGEDERDC
LRP1_HUMAN	CAPNQFQCSITKRCIPRVWV.CDRDNDCVDGSDEPANC
LRP1_HUMAN	CGVDEFRCKDSGRCIPARWK.CDGEDDCGDGSDEPKEEC
LRP1_HUMAN	C EPYQFRCKNNR CVPGRWQ.CDYDNDCGDNSDEESC
LRP1_HUMAN	CSESEFSCANGRCIAGRWK.CDGDHDCADGSDEKDC
LRP1_HUMAN	CDMDQFQCKSGHCIPLRWR.CDADADCMDGSDEEAC
LRP1_HUMAN LRP1 HUMAN	CPLDEFQCNNTLCKPLAWK.CDGEDDCGDNSDENPEEC CPPNRPFRCKNDRVCLWIGRQ.CDGTDNCGDGTDEEDC
LRP1 HUMAN	CKDKKEFLCRNQRCLSSSLR.CNMFDDCGDGSDEEDC
LRP2 HUMAN	CDSAHFRCGSGHCIPADWR.CDGTKDCSDDADEIGC
LRP2_HUMAN	CQQGYFKCQSEGQCIPSSWV.CDQDQDCDDGSDERQDC
LRP2_HUMAN	CSSHQITCSNGQCIPSEYR.CDHVRDCPDGADENDC
LRP2_HUMAN	C EQLTCDNGA CYNTSQK.CDWKVDCRDSSDEINC
LRP2_HUMAN LRP2 HUMAN	CLHNEFSCGNGECIPRAYV.CDHDNDCQDGSDEHAC CGGYQFTCPSGRCIYQNWV.CDGEDDCKDNGDEDGC
LRP2 HUMAN	CSPREWSCPESGRCISIYKV.CDGILDCPGREDENNTSTGKYC
LRP2 HUMAN	CGLFSFPCKNGRCVPNYYL.CDGVDDCHDNSDEQLC
LRP2_HUMAN	CSSSAFTCGHGECIPAHWR.CDKRNDCVDGSDEHNC
LRP2_HUMAN	CLDTQYTCDNHQCISKNWV.CDTDNDCGDGSDEKNC
LRP2_HUMAN	CQPSQFNCPNHRCIDLSFV.CDGDKDCVDGSDEVGC
LRP2_HUMAN	CTASQFKCASGDKCIGVTNR.CDGVFDCSDNSDEAGC
LRP2_HUMAN LRP2 HUMAN	CHSDEFQCQEDGICIPNFWE.CDGHPDCLYGSDEHNAC CPSSYFHCDNGNCIHRAWL.CDRDNDCGDMSDEKDC
LRP2 HUMAN	CPSWQWQCLGHNICVNLSVV.CDGIFDCPNGTDESPLC
LRP2 HUMAN	CGASSFTCSNGRCISEEWK.CDNDNDCGDGSDEMESVC
LRP2_HUMAN	CSPTAFTCANGRCVQYSYR.CDYYNDCGDGSDEAGC
LRP2_HUMAN	CNATTEFMCNNRR
LRP2_HUMAN	CQSGYTKCHNSNICIPRVYL.CDGDNDCGDNSDENPTYC
LRP2_HUMAN	CSSSEFQCASGRCIPQHWY.CDQETDCFDASDEPASC
LRP2_HUMAN LRP2 HUMAN	CLADEFKCDGGRCIPSEWI.CDGDNDCGDMSDEDKRHQC CSDSEFLCVNDRPPDRRCIPQSWV.CDGDVDCTDGYDENQNC
LRP2 HUMAN	CSENEFTCGYGLCIPKIFR.CDRHNDCGDYSDERGC
LRP2 HUMAN	CQQNQFTCQNGRCISKTFV.CDEDNDCGDGSDELMHLC
LRP2_HUMAN	CPPHEFKCDNGRCIEMMKL.CNHLDDCLDNSDEKGC
LRP2_HUMAN	CSSTQFLCANNEKCIPIWWK.CDGQKDCSDGSDELALC
LRP2_HUMAN	CRLGQFQCSDGNCTSPQTL.CNAHQNCPDGSDEDRLLC
LRP2_HUMAN	CDSNEWQCANKR
LRP2_HUMAN LRP2 HUMAN	CRPGQFRCANGRCIPQAWK.CDVDNDCGDHSDEPIEEC CDNFTEFSCKTNYRCIPKWAV.CNGVDDCRDNSDEQGC
LRP2_HUMAN	CHPVGDFRCKNHHCIPLRWQ.CDGQNDCGDNSDEQGC
LRP2 HUMAN	CTESEFRCVNQQCIPSRWI.CDHYNDCGDNSDERDC
LRP2_HUMAN	C
LRP2_HUMAN	CQATMFECKNHVCIPPYWK.CDGDDDCGDGSDEELHLC
LRP2_HUMAN	CNSPNRFRCDNNRCIYSHEV.CNGVDDCGDGTDETEEHC
LRP2_HUMAN	CTEYEYKCGNGHCIPHDNV.CDDADDCGDWSDELGC
LR1B_HUMAN	CDPGEFLCHDHVTCVSQSWL.CDGDPDCPDDSDESLDTC

LR1B HUMAN	CPLNHIACLGTNK	CVHLSQL . CNGVLDCPDG	YDEGVH C
LR1B HUMAN	CKAGEFRCKNRH	CIOARWK CDGDDDCIDG	SDEDSVN C
_			
LR1B_HUMAN	C PDDQFKCQNNR		
LR1B HUMAN	COVDOFSCGNGR	CIPRAWL.CDREDDCGDO	TDEMASC
LR1B HUMAN	C EPLTQFVCKSGR	CIECKMR CDCDDDCCDC	CDEVC C
_			
LR1B_HUMAN	C FDNQFRCSSGR		
LR1B HUMAN	CNGNEFQCHPDGN	CVPDLWR . CDGEKDCEDG	SDEKG C
LR1B HUMAN	CDHKTKFSCWSTGR	CINKAWA CDCDIDCEDO	CDEDD C
-	CDIRTRESCUSIGR	CINKAWV.CDGDIDCEDQ	SDEDD C
LR1B_HUMAN	CGPPKHPCANDTSV	CLQPEKL.CNGKKDCPDG	SDEGYL C
LR1B HUMAN	CNAYSEFECGNGE	CIDYOLT.CDGIPHCKDK	SDEKLLYC
LR1B HUMAN	CRRGFKPCYNRR	CIPHCKI CDCENDCCDN	CDEID C
_	C RRGF RFCINRR	CIPHGKE.CDGENDCGDN	SDELD C
LR1B_HUMAN	CATVEFRCADGT	CIPRSAR.CNQNIDCADA	SDEKNC
LR1B HUMAN	CTHFYKLGVKTTGFIRCNSTSL	CVLPTWI.CDGSNDCGDY	SDELK
LR1B HUMAN	C EENYFSCPSGR		
_			
LR1B_HUMAN	CSWNQFACSAQK		
LR1B HUMAN	CAADMFSCQGSRA	CVPRHWL.CDGERDCPDG	SDELSTAG C
LR1B HUMAN	C DENAFMCHNKV	GIDVORY CDUDDDGGDG	00000011101110
_	CDENAFICHNKV	CIPKQFV.CDHDDDCGDG	SDESPQC
LR1B_HUMAN	CGTEEFSCADGR	CLLNTQWQCDGDFDCPDH	SDEAPLNPKC
LR1B HUMAN	CNSSFFMCKNGR	CIPSCGI, CDNKDDCGDG	SDEPN C
LR1B HUMAN	G WASSITIONEDY		
_	CTASQFRCKTDK	CIPFWWK.CDTVDDCGDG	SDEPDDC
LR1B_HUMAN	CQPGRFQCGTGL	CALPAFI.CDGENDCGDN	SDELNC
LR1B HUMAN	CLSGQFKCTKNQK	CIPVNIR CNGODDCGDE	EDEED C
_			
LR1B_HUMAN	CSPDYFQCKTTKH	CISKLWV.CDEDPDCADA	SDEANC
LR1B_HUMAN	CGPHEFQCKNNN	CIPDHWR. CDSQNDCSDN	SDEENC
LR1B HUMAN	CTLKDFLCANGD	CASSER CDGDEDGYDG	CDEDM C
_	a cypoppagyas		, C
LR1B_HUMAN	CSKDQFRCSNGQ	CIPAKWK.CDGHEDCKYG	EDEKS C
LR1B HUMAN	CSSREYICASDG	CISASLK.CNGEYDCADG	. SDEMD C
LR1B HUMAN	CKEDQFRCKNKAH	CIPIDMI COCTUDAVO	CDEEN
_	C	CIPIRWE.CDGIADCVDG	SDEEN C
LR1B_HUMAN	CRADEFLCNNSL	CKLHFWV.CDGEDDCGDN	SDEAPDMC
LR1B_HUMAN	CPSTRPHRCRNNRI	CLOSEOM.CNGIDECGDN	SDEDHC
LR1B HUMAN	CKKDEFACSNKK	CIRMDIA CDRIDDCCDC	CDEOC C
	O		SDEQGC
075851	CAEGEALCQENGH	CVPHCMI, CDMODDCCDC	CDEECE G
	G		SDEEGE C
075851	CGEGQMTCSSGH	CLPLALL.CDRQDDCGDG	TDEPSYPC
075851	CPQGLLACADGR	CLPPALL.CDGHPDCLDA	ADEES
075851	CVPGEVSCVDGT	CICATOL CDCUMDODDC	ADDODOU
		CLGATQL.CDGVWDCPDG	ADEGPGH C
ENSP000002620			
= 075851	CGPFEFRCGSGE	CTPRGWR.CDOEEDCADG	SDERG C
ENSP000002620	9.0		·······································
BN3F00002620			
	CAPHHAPCARGPH	CVSPEQL.CDGVRQCPDG	SDEGPDAC
075851	CPGLFPCGVAPGL	CLTPEOL.CDGIPDCPOG	. EDELD C
075851	CPEYTCPNGT	GIGEOTH GDGCDDGGDDGGUG	
	CPEIICPNGI	cighdry.cngdbncgkbgdAgi	SPEEQGC
075851	CEPGVGLRCASGE	CVLRGGP.CDGVLDCEDG	SDEEGC
ENSP000002620	89		
	CGPGQTPCEVLG	QUEOLOU ADADEDALDA	0DED!! 6
	CGFGQTFCEVHG	VEQAQV.CDGREDCLDG	SDERHC
075851	CSPSQLSCGSGE	CLSAERR.CDLRPDCQDG	SDEDGC
C18oRF1	CKFTCTSGK	CLYLGSLVCNOONDCGDN	SDEEN C
AAH07083/Q9NP	PA .		
AANO / OOS / QSNE			
	CPPTKFQCRTSGL	CVPLTWR.CDRDLDCSDG	.SDEEEC
AAH07083/Q9NP	F0		
, 2	CLAGELRCTLSDD	CIDITHE COCUPOCOS	CDELC -
OOUDYO	a a a a a a a a a a a a a a a a a a a		
банвуа	CSLGYFPCGNITK	CLPQLLH.CNGVDDCGNQ	.ADEDNC
Q9BY79/Q96DQ9	CAHDEFRCDQLI	.CLLPDSV.CDGFANCADG	SDETNC
09BY79/096D09	CGPSELSCQAGG	CKGVOWM CDMWPDCTDC	CDDM
DADEFORM			יישקקק
BAB55257 =			
ENSP000002393			
	${\tt C} \ldots \ldots {\tt SRYHFFCDDG\underline{C}} \ldots \ldots$	CIDITIA CDCVOOCDDC	enene a
095518 =	C BORDI ACTIONS	CIDITIA COGVOQUEDG	. 3DEDF C
	CpGEFLCSVNGL		.LDERNC
ENSP000002557	93		
ENSP000002557	93		
		GTGI DVII GDGGDDGI II	
	CRATFQCKEDST	.CISLPKV.CDGQPDCLNG	.SDEEQC
ENSP000002557			
	CGTFTFQCEDRS	. CVKKPNPOCDGRPDCRDG	.SDEEHC
	=	2	
OOMADO	G 070755607	41 DD 1 DV	
Q8WXD0	C QKGYFPCGNLTK	CLPRAFH CDGKDDCGNG	ADEEN C
Q8NBJ0	C STARYHCKNGL	CIDKSFI CDGQNNCQDN	SDEES C
Q8NBJ0	C GPTFFPCASGIH	CIIGRFR CNGFEDCPDG	SDEEN C
Q8NBJ0	C NIPGNFMCSNGR	CIPGAWQ CDGLPDCFDK	SDEKE C
MEGF7	C ALDQFLCWNGR	CIGQRKL CNGVNDCGDN	SDESPQQN C
		·-	SDEQ C
MEGF7		CIRSINH CHGDNOCGON	
MEGF7	C EEDEFPCQNGY	CIRSLWH CDGDNDCGDN	
MEGF7	C EEDEFPCQNGY C RSGEFMCDSGL	CINAGWR CDGDADCDDQ	SDERN C
	C EEDEFPCQNGY		SDERN C
MEGF7 MEGF7	C EEDEFPCQNGY C RSGEFMCDSGL C TAEQFRCHSGR	CINAGWR CDGDADCDDQ CVRLSWR CDGEDDCADN	SDERN C SDEEN C
MEGF7 MEGF7 MEGF7	C EEDEFPCQNGY C RSGEFMCDSGL C TAEQFRCHSGR C SPLDFHCDNGK	CINAGWR CDGDADCDDQ CVRLSWR CDGEDDCADN CIRRSWV CDGDNDCEDD	SDERN C SDEEN C SDEQD C
MEGF7 MEGF7 MEGF7 MEGF7	C EEDEFPCQNGY C RSGEFMCDSGL C TAEQFRCHSGR C SPLDFHCDNGK C NLEEFQCAYGR	CINAGWR CDGDADCDDQ CVRLSWR CDGEDDCADN	SDERN C SDEEN C
MEGF7 MEGF7 MEGF7	C EEDEFPCQNGY C RSGEFMCDSGL C TAEQFRCHSGR C SPLDFHCDNGK	CINAGWR CDGDADCDDQ CVRLSWR CDGEDDCADN CIRRSWV CDGDNDCEDD	SDERN C SDEEN C SDEQD C
MEGF7 MEGF7 MEGF7 MEGF7	C EEDEFPCQNGY C RSGEFMCDSGL C TAEQFRCHSGR C SPLDFHCDNGK C NLEEFQCAYGR	CINAGWR CDGDADCDDQ CVRLSWR CDGEDDCADN CIRRSWV CDGDNDCEDD CILDIYH CDGDDDCGDW	SDERN C SDEEN C SDEQD C SDESD C

MEGF7	C	GRSHFTCAVSALGECT	CIPAQWQ CDGDNDCGDH	SDEDG	C
CAD61944	С	LQEEFQCLNHR	CVSAVQR CDGVDACGDG	SDEAG	С
CAD61944	С	PPGHFPCGAAGTSGATA	CYLPADR CNYQTFCADG	ADERR	C
CAD61944	C	QPGNFRCRDEK	CVYETWV CDGQPDCADG	SDEWD	C
ENSG000001810	06				
	C	PEITDFLCRDKK .	CIASHLL CDYKPDCSDR	SDEAH	C
ENSP000003202	48				
	C	NNRTFKCGNDI	CFRKQNAKCDGTVDCPDG	SDEEG	C
ENSP000002775	47				
	C	PPGHHHCQNKV	CVEPQQL CDGEDNCGDL	SDENPLT	C
ENSP000003200	22				
	C	KQGHLACGDL	CVPPEQL CDFEEQCAGG	EDEQA	С
ENSP000003132	22				
	C	PGNSFSCGNSQ	CVTKVNPECDDQEDCSDG	SDEAH	C

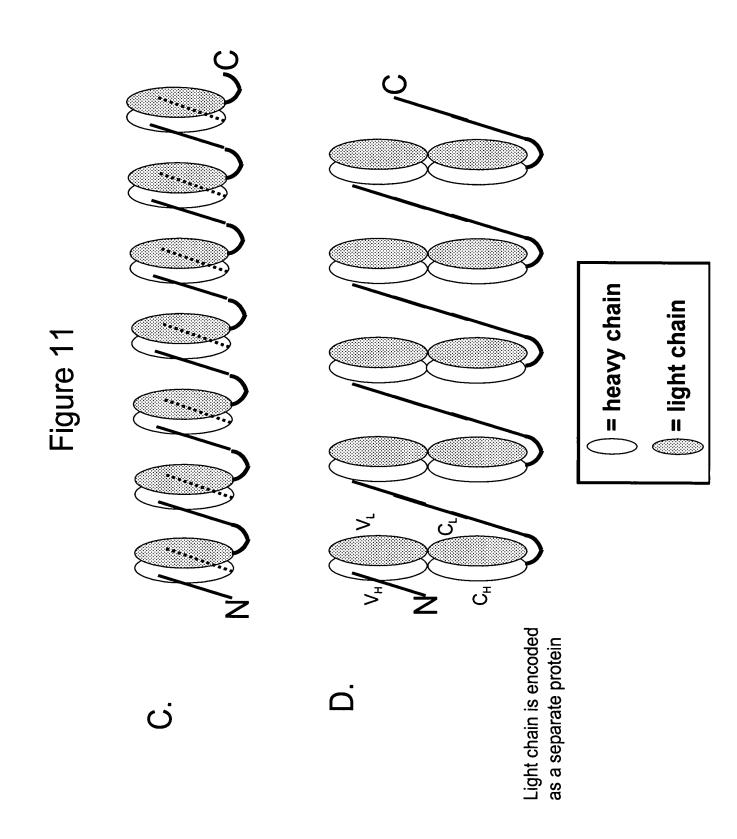
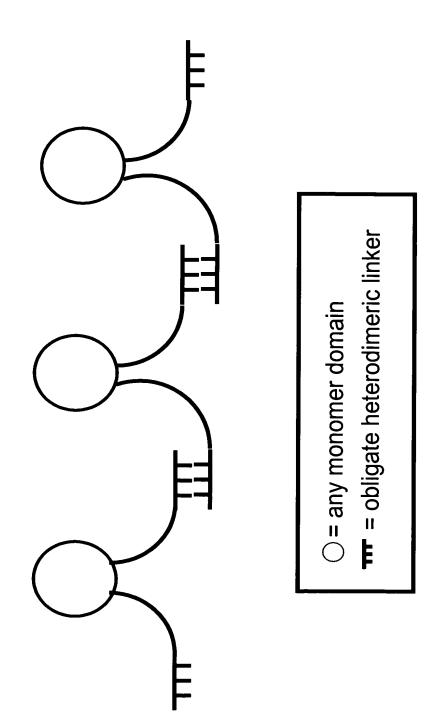


Figure 12



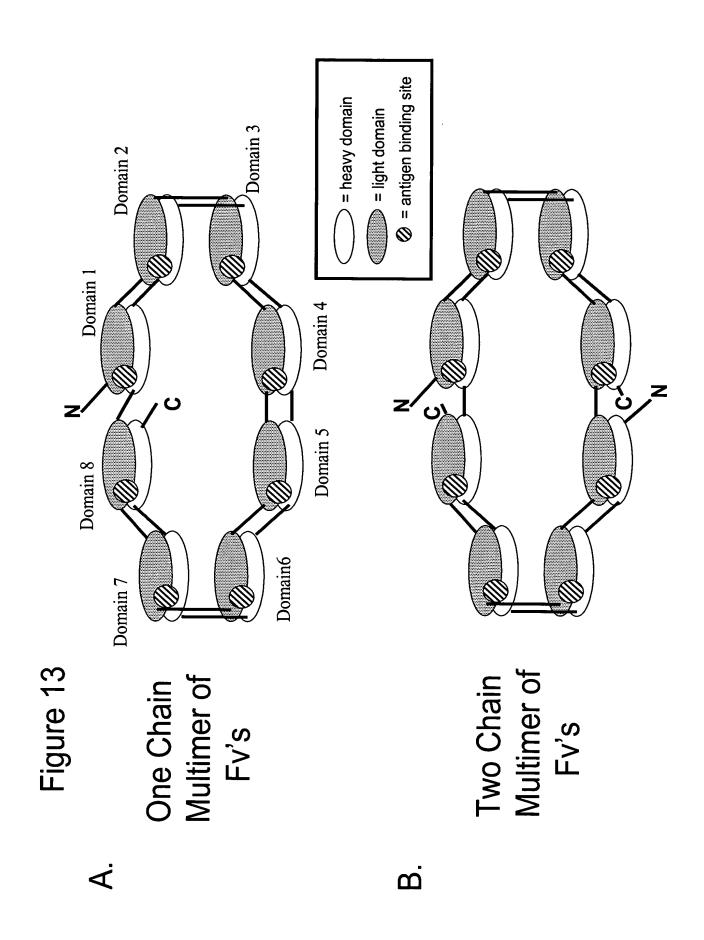
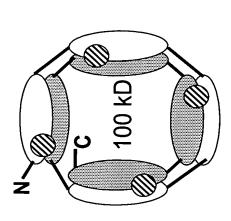


Figure 13C

4 domain ring



= heavy domain
= light domain
= antigen binding site

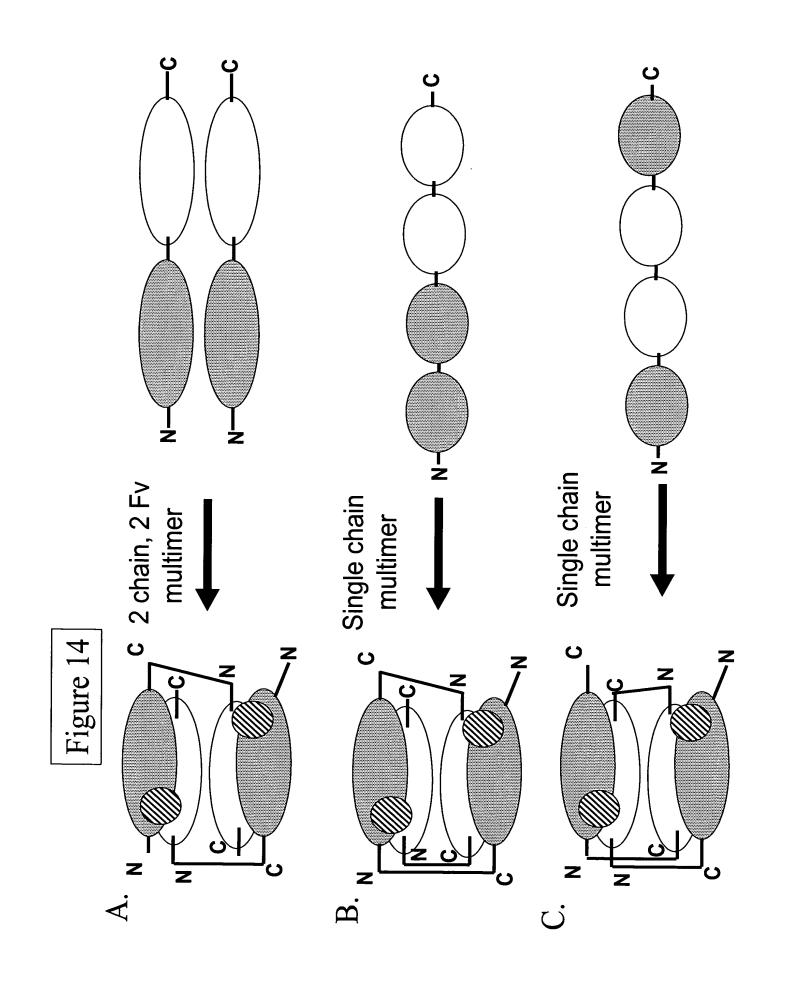
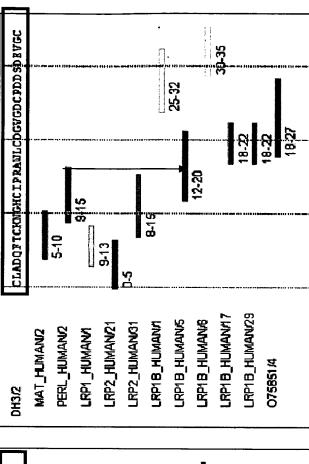


Figure 15



Selected Clone 2



27-34

915

5

075851/3 AAH07083/2

LRP1B_HUMAN/27 LRP1B_HUMAN/30

20-32

13-17

2-7

LRP18_HUMAN/22

LRP2_HUMAN/21 LRP1B_HUMAN/11

S-0

LRP1_HUMAN/25

18.55

8-11

SORL_HUMAN/B LDVR_HUMAN/6 LRP1_HUMAN/4

LRPS_HUMANIZ

16-21

24-33

15-18

Figure 16
Cell Killing induced by Maxybodies

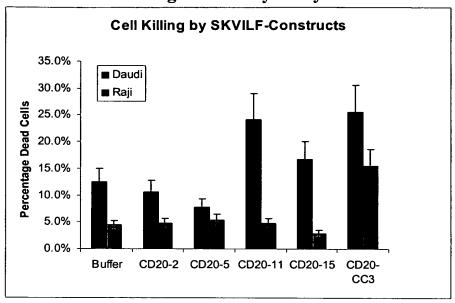


Figure 17: TPO-R Phage Specificity Data

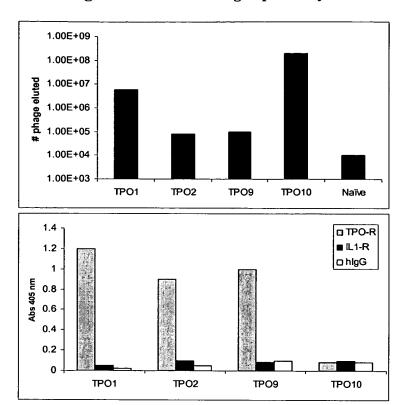


Figure 18: TF1 Proliferation Assay

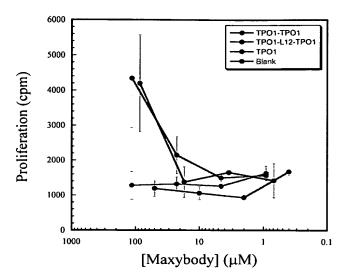


Figure 19: Epitope mapping of IgE-Binding Monomer

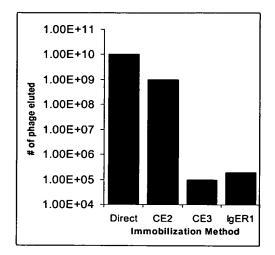


Figure 20

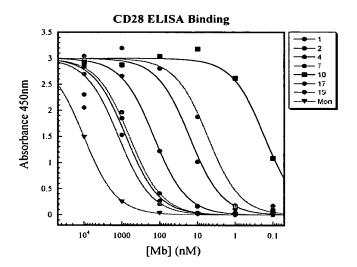


Figure 21

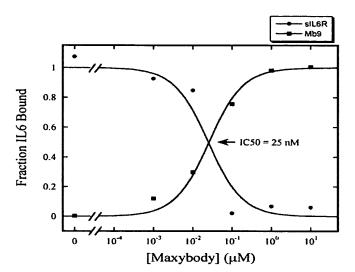


Figure 22

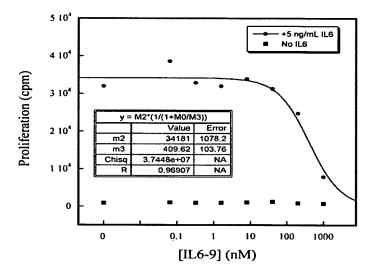
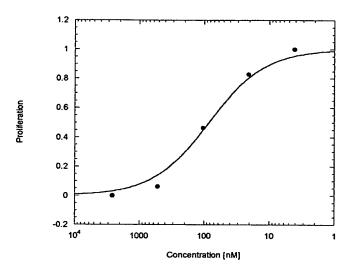
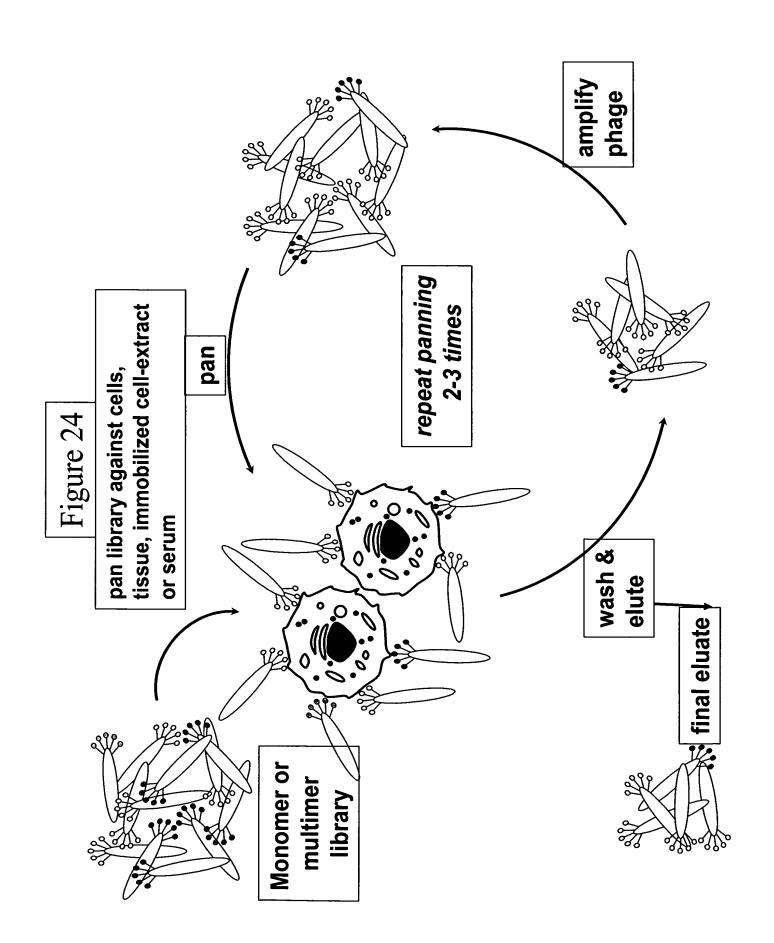
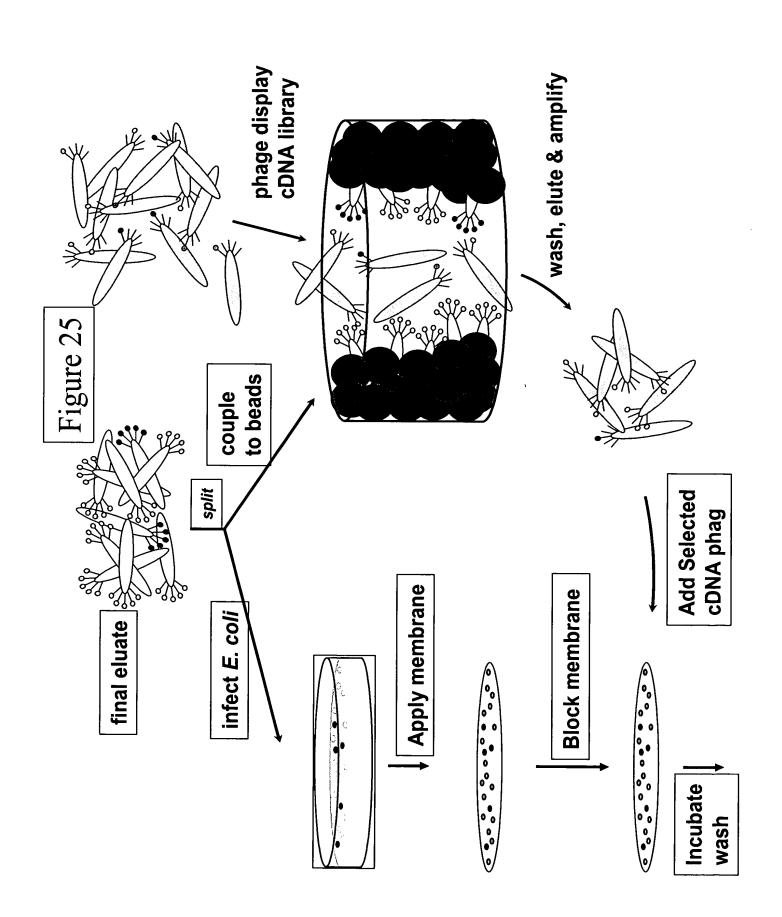


Figure 23







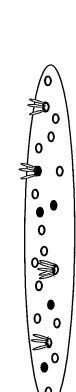
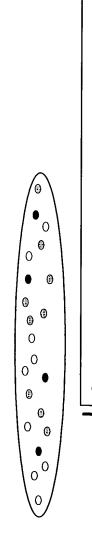
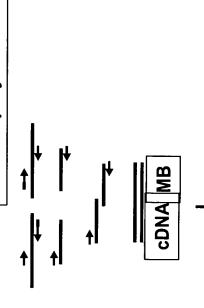


Figure 26

Stain membrane using cDNA phage specific MAb (HRP labeled) Add substrate



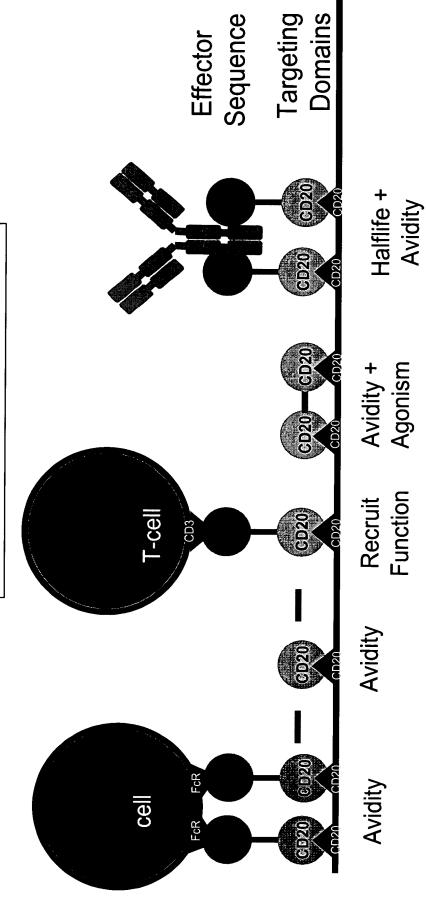
Cut positive spots out of membrane and add to PCR tube PCR amplify cDNA and MB sequences



Sequence PCR fragments

Figure 27

Format Variations



Exemplary Anti-Fc-R1 Multimer Anti-Fc-R1 Figure 28 9 KD

